

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-53

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Ethanol (E95)

| <u>Engine Family</u> | <u>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems and Special Features</u> |
|----------------------------------|------------------------------|---|
| TDD552FJBOBA (6V92TA-ethanol) | 9.0 552 | Charge Air Cooler Turbocharger Powertrain Control Module Oxidation Catalytic Converter |

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

| <u>Organic-Material Hydrocarbon Equivalent</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|--|------------------------|------------------------|---------------------|
| 1.3 | 15.5 | 4.0 | 0.05 |

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

| <u>Engine Family</u> | <u>Organic-Material Hydrocarbon Equivalent</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|----------------------------------|--|------------------------|------------------------|---------------------|
| TDD552FJBOBA (6V92TA-ethanol) | 1.3 | 3.0 | 3.3 | 0.05 |

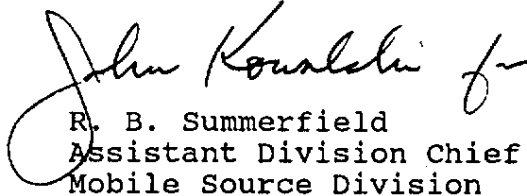
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine family is certified for use in urban buses.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 12th day of September 1996.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer: Detroit Diesel Corporation

Engine Family: TDD552FJB0BA

Displacement: 9 Liters 552 Cubic Inches

Maximum Rated Power: 277 HP @ 2100 RPM

Engine Configuration: V-6

Ignition: Compression _____ Compression with Glow Plug X Spark _____Fuel Type(s): Dedicated X Flex-Fuel _____ Dual-Fuel _____ Diesel _____ M100 _____ M85 _____CNG _____ LNG _____ LPG _____ Other (specify) Ethanol, E95

Diesel Cert Fuel: 13 CCR 2282 _____ 40 CFR 86.1313-90 _____ 40 CFR 86.1313-94 _____

Primary Intended Service Class: LHD _____ MHD _____ HHD _____ Urban Bus X

Exhaust ECS (include. MFI, TC, CAC): PCM, CAC, OC, (TC)

| Engine Model (Eng Code) | Rated HP @ RPM | Fuel Rate @ Rated HP mm3/Stroke (lbs/hr) | Fuel Pump & Injector Part No. | ECM/PCM Part No. | EGR Valve Part No. | PTOX/ Catalytic Converter Part No. |
|-------------------------------|-------------------|---|-------------------------------------|---------------------|--------------------------|---|
| <u>6V-92TA Ethanol</u> | | | | | | |
| 1E | 277 @ 2100 | 138.7 (182.8) | 5236588 | 7570049 7570050 | | 25145396 25145487 |